

Newsletter

Science and technology newsletter

Next week, you will receive the **Wetsus Science and Technology newsletter**, featuring the following topics:

- Expert Vision: prof.dr. Menachem Elimelech
- Modified membranes boost the cleaning efficiency of produced water
- Second chance for desalination using electrodialysis. Will a new design beat the traditional reverse osmosis?
- Sieving with sound, acoustic waves to separate different-sized particles

New participant

We welcome [Georg Fischer Piping Systems](#) as participant company in our Biofilms research theme. GFPS develops, produces and markets a comprehensive range of piping systems and components in a variety of materials used worldwide to transport water, gases and aggressive media.



Subsidy for vivianite research

Wetsus, Water authority Brabantse Delta, Wageningen University and Delft University have received a subsidy from the Idea Generator call of NWO, the Dutch scientific organization. The Idea Generator call wants to promote research with a potentially high social impact that is risky or too early in its development for an assessment in a regular peer review process.

The research will focus on an innovative process to stimulate vivianite formation in freshwater sediments to not only bind but also recover phosphate from sediment and water through a magnetic separation process. This will improve the quality of surface water that is polluted by high phosphate loading from for instance fertilizer use, causing algae bloom. The recovered phosphate can be reused.

Wetsus Congress 2019, Organizing Innovation

You can now find the full program on our [website](#)! Check out our 50 speakers in 16 sessions, in 2 days!

Organizing Innovation is the theme of the Wetsus Congress 2019. In plenary sessions on Monday October 7, the theme will be addressed from an international context and from the sustainable innovation perspective. Tuesday October 8 is all about science. The 12 parallel sessions are based on Wetsus' scientific program. In addition, we are happy to present two international renowned key note speakers: [prof.dr. Henrik Svensmark](#), National Space Institute at the Technical University, Denmark and [dr. Millán M. Millán](#), Emeritus Executive Director of the CEAM-UMH Research Institute, Spain.

We hope to meet you, please register [here](#).

Wetsus Congress 2019
Leeuwarden, October 7-8
Organizing
Innovation



The Netherlands at the Stockholm Junior Water Prize

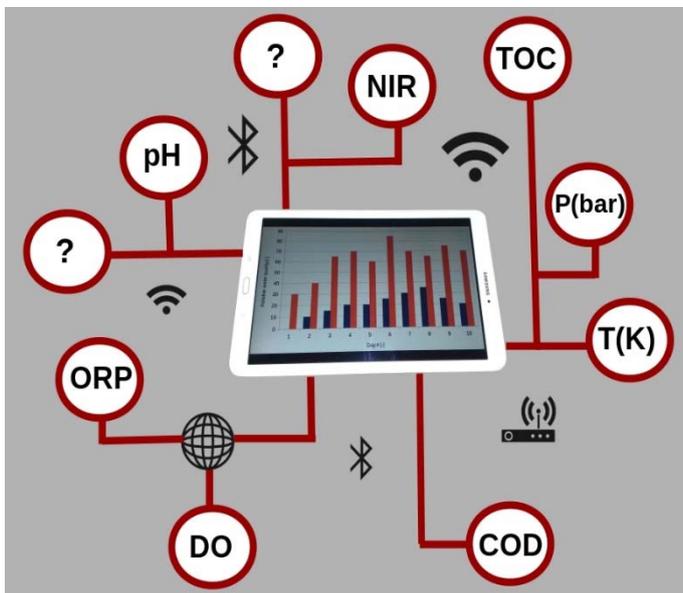
Wetsus, Water board Brabantse Delta, Wageningen University and Research and Delft University of Technology have received a subsidy from the Idea Generator call of NWO, the Dutch scientific organization. The Idea Generator call wants to promote research with a potentially high social impact that is risky or too early in its development for an assessment in a regular peer review process.

The research will focus on an innovative process to recover phosphate from water by using vivianite. This will improve the quality of water that is polluted by fertilizers, causing algae bloom, and to re-use the phosphate.



EasyMeasure starts IoT test with sensors at The WaterCampus

EasyMeasure, in close cooperation with Wetsus, put an Internet of Things (IoT) network in operation to measure air and water quality parameters in the WaterCampus biotope. The objective is to collect data with a large number of simple sensors, providing direct and indirect information on the air and water qualities at the WaterCampus.



In a nutshell, the qualities of the surface water and the water in the ponds are predicted through big data and sensor fusion. Additionally, the network is used to test the performance and robustness of new sensors by adding them to the network and by comparing the generated data with measurements of the other sensors in the network. "With spin-off company Aquacolor Sensors, we recently realized a number of new sensors that we will now thoroughly test in the network in order to validate them. In parallel we also regularly take water samples that will be analyzed by the Water Application Center Leeuwarden (WAC)." says Mateo Mayer from EasyMeasure.

EasyMeasure is also part of the Wetsus Sensoring theme. "The platform set-up, as installed at the WaterCampus, is perfectly in line with actual R&D projects with focus on big data and sensor fusion. Practical experience obtained with the IoT network at the WaterCampus will accelerate the translation of knowledge to practical applications for our theme members" says Martijn Wagterveld from Wetsus.

Podcast Cees Buisman

You can listen to a [podcast](#) by Cees Buisman, Executive Board Wetsus, about his vision on innovation.

